

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **2001259422 A**(43) Date of publication of application: **25.09.01**

(51) Int. Cl.

B01J 23/58**B01D 53/94****// B01J 20/04**(21) Application number: **2000075736**(71) Applicant: **TOYOTA MOTOR CORP**(22) Date of filing: **17.03.00**(72) Inventor: **HARA NAOYUKI****(54) CATALYST FOR CLEANING EXHAUST GAS**

releasing is suppressed even at high temperature lean atmosphere.

(57) Abstract

COPYRIGHT: (C)2001,JPO

PROBLEM TO BE SOLVED: To provide a NO_x occlusion/reduction type catalyst having sufficient occlusion capacity even at the high temperature region.

SOLUTION: The catalyst is constituted of a porous carrier 1 having a high specific surface area, a basic carrier 2 exposed in a form like island on the surface of the porous carrier 1 and more strong in basicity than the porous carrier 1, at least noble metal 3 deposited on the surface of the porous carrier 1 and at least NO_x occlusion material 4 deposited on the surface of the basic carrier 2 exposed in the form like the island. Since the noble metal 3 deposited on the porous carrier 1 is not brought into contact with the basic carrier 2 and low in the probability contacting with the NO_x occlusion material 4, the deterioration of activity is prevented, and in the NO_x occlusion material 4 deposited on the basic carrier 2, the nitrate formed by the reaction with the NO_x is stabilized and NO_x

